BESTECH
INC. OF CONNECTICUT
ENVIRONMENTAL SERVICES

SEPTEMBER 1, 2019
Revised September 8, 2019
SOCIAL WORK BUILDING-FINTECH

DEMOLTION WORK PLAN

In conjunction with the PCB Removal Plan and associated testing/monitoring scenarios submitted by Eagle Environmental, we offer the following procedures for the demolition of the Social Work Building:

- 10 mil. reinforced poly sheeting will be installed 50 feet out from the foundation walls and secured to same with duct tape/glue on all elevations. Plywood will be installed 16 feet out with all seams secured with tape/glue. The 50 foot setback is typical of all areas with the exception of one section on the west side where the contamination extends to 55 feet from the buildings edge. Therefore, the installation of the polyethylene sheeting will extend out 60 feet on the west side from the buildings edge in the area of identified contamination.

- Steel plates, also on 10 mil poly, will be installed on all surfaces where excavators may travel during the demolition process to eliminate the possibility of soil/mulch/hardscape disturbance. As we will be commencing on the south end, the steel plates will extend out 30 feet and cover the entire south end east to west.

- The roof and sections of the exterior (columns and slab edges) of the building will be wetted prior to demolition by use of a 2 inch fire hose with adjustable nozzle operated from a boom lift. Water will be introduced in volumes not to cause pooling or runoff. This is only a preliminary introduction of water in limited volume. Dust controls during demolition operations are described below.

- Dust suppression units will be utilized at all times during demolition and loading activities. (Please see attached pictures). The introduction of water via misting will be constantly monitored to ensure that no free water is observed. If free water is generated

we will halt demolition operations and apply an absorbent product to solidify the free water, i.e., sawdust/speedy dry. This material will be collected, packaged and disposed of as PCB remediation waste. In addition to the observations provided by Bestech will be subject to direction provided by Eagle Environmental in regards to stop work orders, air monitoring action levels recorded by their air monitoring equipment. All provisions and inclusions of the work plan submitted by Eagle Environmental are hereby made a part of the Social Work Building Demolition Work Plan submitted by Bestech and dated September 8, 2019.

- A Geyser Attachment will be connected to the boom of the excavator and direct a flow/mist of water directly onto the material that the grapple is removing at all times. The water flow can be controlled in the cab by the operator (Please see attached picture). Free water control action(s) are consistent with those described in Bullet #4.

- The building demolition will commence on the south end of the structure and move northward floor by floor (meaning that a 100 square foot section of roof will be brought down to the third floor slab, then that waste and the third floor waste and slab will be brought to the second and so on, all in the same 100 SF area) The roofing and structure debris will lowered to the next level in a controlled descent which will be repeated until the there is a pile of debris on the slab. The building will be pulled into its footprint from the east and west sides as demolition progresses to eliminate debris from falling onto the protected areas. All window systems will have been removed (please see sketch A) which will only leave columns and slab edges on the outside. The first floor is a wide open area of approximately 2,000 SF and this is where all of the debris will located on the slab. As we bring the waste down to this level we will push the waste to the north on the slab prior to beginning another section to ensure that all of the debris remains on the slab as planned. Dust suppression activities as described elsewhere will be utilized constantly during demolition. Once the 2,000 SF area is on the slab we will cease demolition and load the waste into the transport vehicles (loading location on Sketch B).In the unlikely event that an errant piece or two lands outside of the footprint of the building, and based on experience, the plywood is more than sufficient to protect the underlying soil/hardscape from further contamination.

- Demolition debris will be loaded into trailers/tri-axles which will be located on clean ground and follow the path of demolition to the extent feasible. The debris will loaded out concurrently with the mass demolition to provide room and a safe environment. With the length of the anti-tracking pad we do not feel that a vehicle decon facility is required. However, we will have Eagle conduct random sampling at the loading location and travel path at intervals that the EPA, DEEP and Eagle Environmental are comfortable with.

- Once the building components down to the slab(s) are loaded out all smaller debris (Asbestos/PCB Roofing) from the slabs will be removed and the slabs cleaned to visual clearance criteria. Cleaning will consist of HEPA vacuuming and wet wiping as required by Eagle.

- The resultant debris will be transported and disposed of as a combination asbestos and PCB BPW.

- The slab(s) will be transported and disposed of as PCB BPW along with the foundation walls at the completion of the soil remediation performed by Bestech (Please see Item D).

- All of the plywood and polyethylene sheeting surrounding the building will be removed and disposed of as PCB remediation waste (Please see Sketch C).

- Redundant to 10.

- The work area(s) will be cleaned and left in a safe and orderly manner at the end of each work day

Google Maps West Hartford, Connecticut

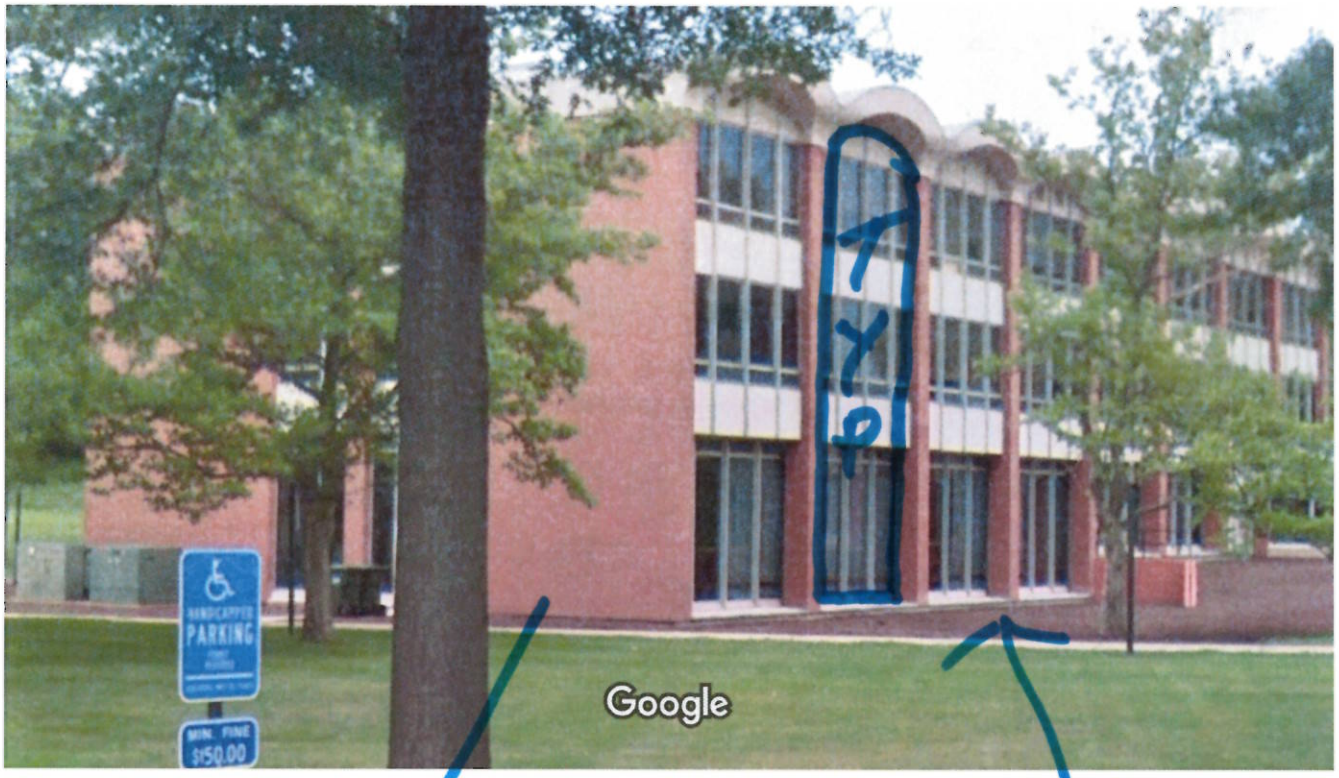


Image capture: Jul 2017 © 2019 Google

Google

Street View - Jul 2017

South

EAST

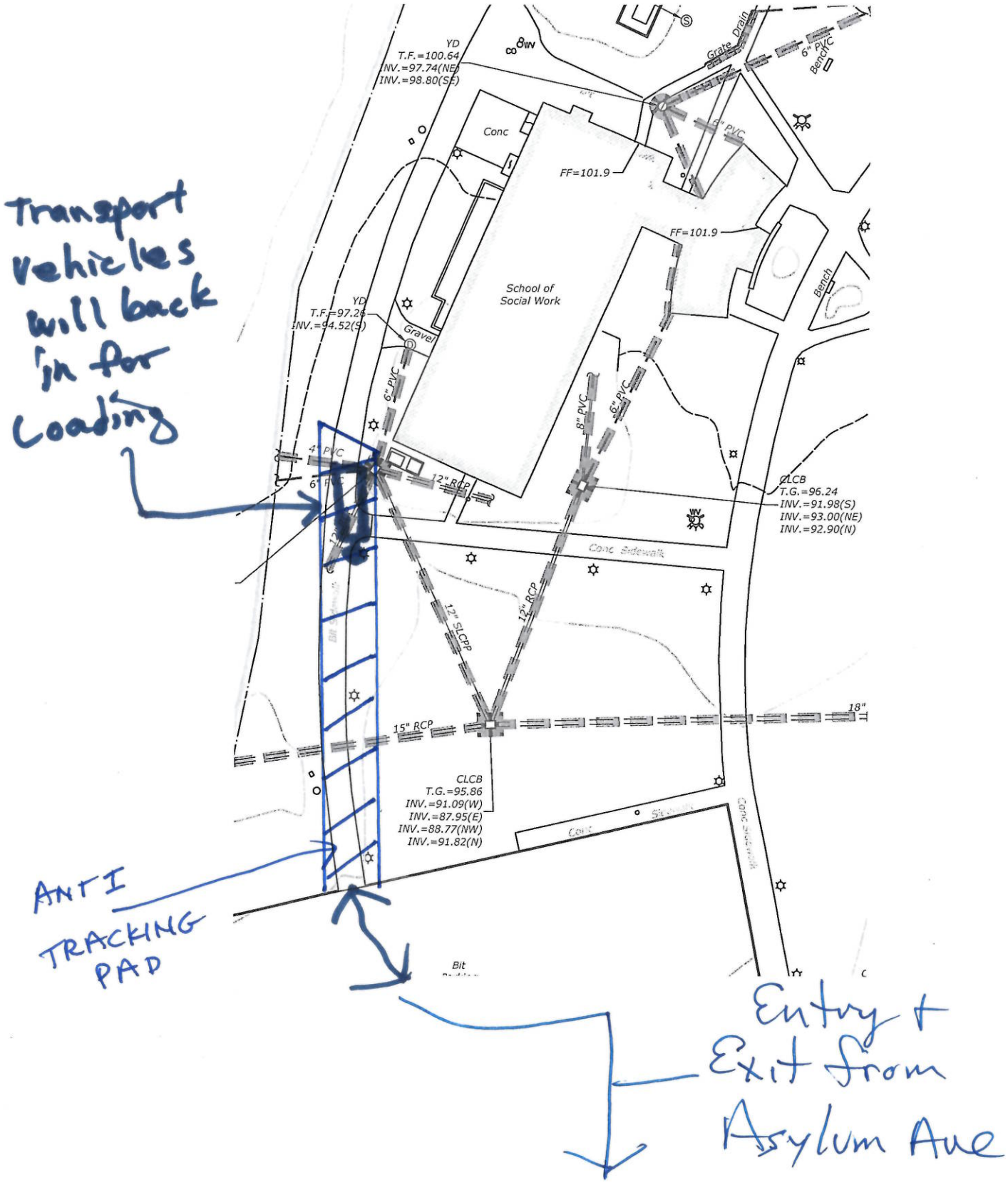
Sketch A

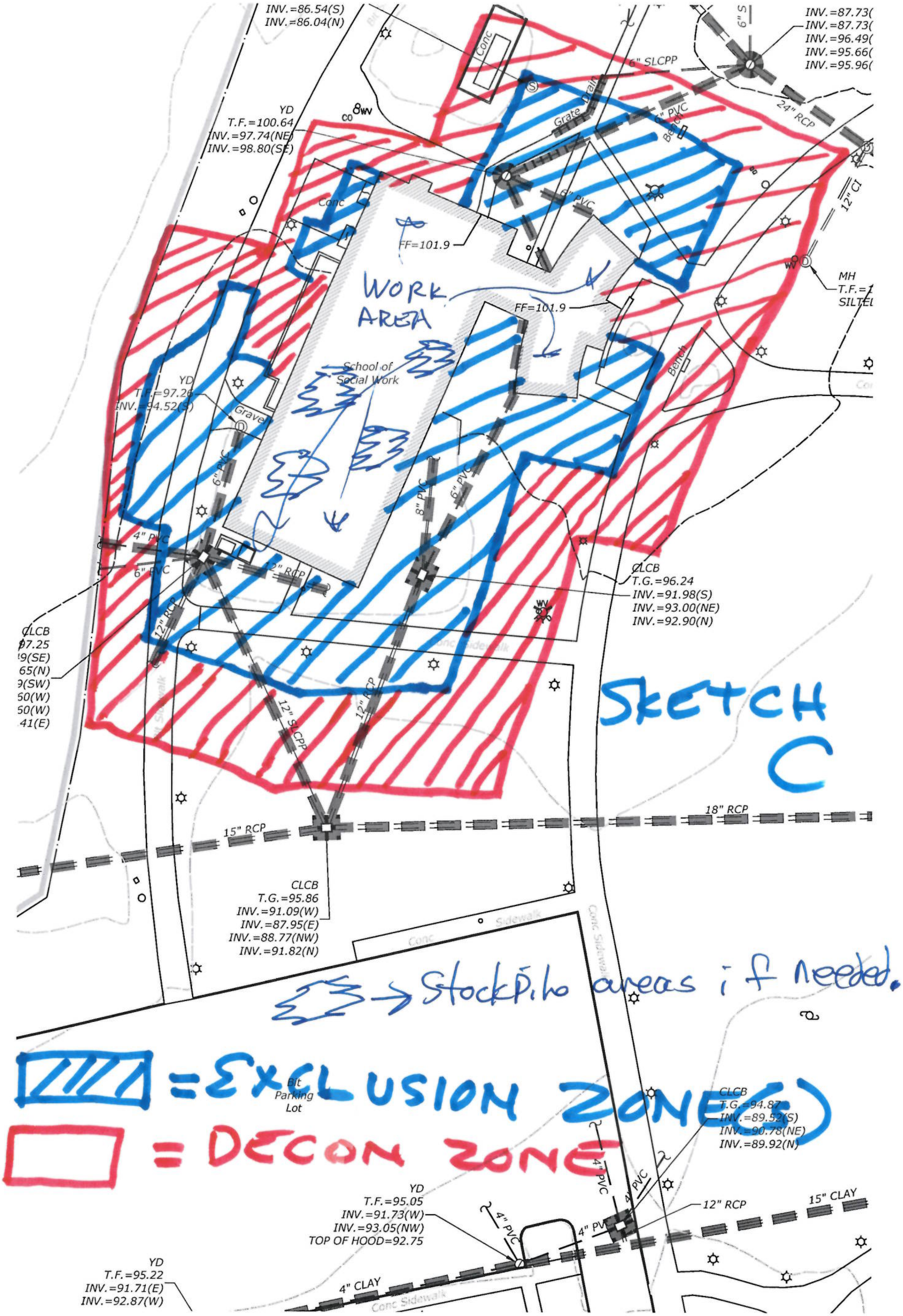
TYP

All window systems will be removed manually Prior to demolition. East + west are identical

SEPT 1, 2019
SCHOOL OF SOCIAL WORK DEMOLITION

Sketch B




WORK AREA
SKETCH C
→ Stockpile areas if needed.
= EXCLUSION ZONE(S)
= DECON ZONE
School of Social Work
FF=101.9
FF=101.9
INV.=86.54(S)
INV.=86.04(N)
INV.=87.73(
INV.=87.73(
INV.=96.49(
INV.=95.66(
INV.=95.96(
6" SLCPP
24" RCP
6" PVC
12" CI
YD
T.F.=100.64
INV.=97.74(NE)
INV.=98.80(SE)
Conc
Grate Drain
Bench
MH
SILTED
YD
T.F.=97.26
INV.=94.52(S)
Gravel
4" PVC
6" PVC
8" PVC
12" RCP
CLCB
T.G.=96.24
INV.=91.98(S)
INV.=93.00(NE)
INV.=92.90(N)
CLCB
Conc Sidewalk
12" SLCPP
15" RCP
18" RCP
CLCB
T.G.=95.86
INV.=91.09(W)
INV.=87.95(E)
INV.=88.77(NW)
INV.=91.82(N)
Sidewalk
Conc Sidewalk
Blt Parking Lot
CLCB
T.G.=94.87
INV.=89.52(S)
INV.=90.78(NE)
INV.=89.92(N)
YD
T.F.=95.05
INV.=91.73(W)
INV.=93.05(NW)
TOP OF HOOD=92.75
12" RCP
15" CLAY
4" CLAY
YD
T.F.=95.22
INV.=91.71(E)
INV.=92.87(W)

ITEM D

Interior PCB Sampling by Eagle (Cont'd)		
Material Type	**Sample Location**	**Result (PPM)**
White/tan paint on corridor walls (CMU)	3-152	11.000
	2-102	9.700
	0-026	15.000
Grey paint on basement floors	0-003	11.000
Concrete floor deck (Substrate)		1.400
Grey paint on basement floors	0-003	7.200
Concrete floor deck (Substrate)		ND
Grey paint on basement floors	0-003	5.200
Concrete floor deck (Substrate)		ND
Sprayed on fireproofing in basement on steel pan deck and I-beams	0-003	1.800
	0-003	1.100
	0-026	1.000
Red paint on steel I-beam	3-108	5.000
Black paint on steel I-beam	2-092	76.000
Black/red paint on steel I-beam	1-075	24.000
Concrete floor slab in mechanical room adjacent to hydraulic reservoir	0-024	ND
Concrete floor slab at bottom of elevator pit	Elevator Pit	0.420
Ground water sample from sump pump in elevator pit	Elevator Pit	ND
Exterior PCB Sampling by Eagle		
Damp proofing on foundation walls	Exterior – West Elevation	76.000
Damp proofing on foundation walls	Exterior – East Elevation	53.000

3.1 DEMOLITION AND PCB REMEDIATION APPROACH

The Social work building will undergo mass demolition to remove the entire structure including all slabs, foundation walls and footings. Foundation walls and footings shall remain in place following building demolition activities to prevent impacted soil from falling into footprint of the building. PCB remediation will be performed as an integral part of the demolition process. The demolition scope of work includes the following:

1. Demolish the entire building including all slabs, footings and foundations and dispose of as PCB Bulk Product waste.

All waste will be disposed of as PCB Bulk Product Waste. Certain building materials are asbestos-containing and will require abatement prior to building demolition. The following building materials have been confirmed to be ACM:

- 9"x9" floor tile;
- Floor tile mastic (under 9"x9" and 12"x12" floor tiles) – (2.60 – 23.00 ppm PCB);
- Mudded pipe fitting insulation;

HKD BLUE
ECO-PROTECTION

V-500GT

The V-500 models all come equipped with

- Remote Control Functionality
- Customized Water Flow Rates
- 50 total HP / 38 kW of Electric Motors

The V-500GT (Genset-Trailer) boasts a 60 kW diesel generator, galvanized steel trailer, and is best applied on sites without 480v | 600v power readily acessable. The V-500GT is one of the most elite dust control units on the market.

Applications Include:

- Dust Control and Dust Suppression
- Smoke Emissions Control
- Scrap Yard Fire Suppression
- Local and Federal Dust Emissions Compliance

SPECIFICATIONS

Operation	Remote or Manual
Variable Flow Rates	10 - 80 gpm 1.2 - 18 m³/h
Projection	250 ft 75 m
Automatic Oscillation	350°
Misting Coverage	177,000 ft² 16,445 m²
Fan Motor	25 hp 19 kW
Fan Capacity	33,000 cfm 56,000 m³/h
Pump Motor	25 hp 19 kW
Pump Capacity	10-80 gpm @ 300-500 psi 2-18 m³/h @ 20-34 bar
Voltage/Frequency	480v @ 60 Hz 600v @ 60 Hz 380v @ 50 Hz

Mobile Generator

Engine	Diesel (Min. 91 hp)
Prime Power	60 kW / 75kVa

HKD BLUE
ECO-PROTECTION

V-500

The V-500 models all come equipped with

- Remote Control Functionality
- Customized Water Flow Rates
- 50 total HP / 38 kW of Electric Motors

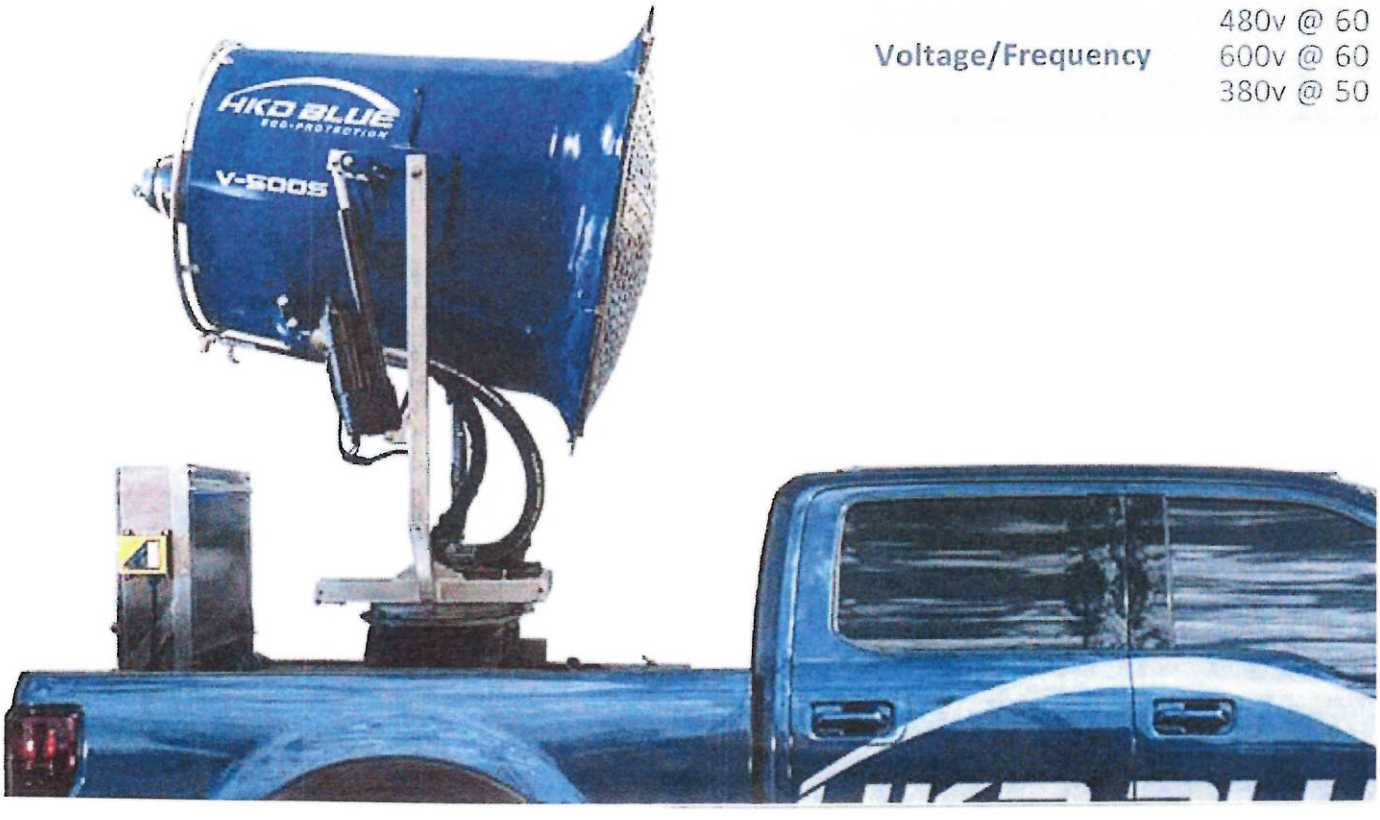
The **V-500S** (Skid) unit is designed for the bed of your long-box pickup truck. Tow behind a 60kw generator, and you are ready to start up at a moments notice.

Applications Include:

- Dust Control and Dust Suppression
- Smoke Emissions Control
- Scrap Yard Fire Suppression
- Local and Federal Dust Emissions Compliance

SPECIFICATION

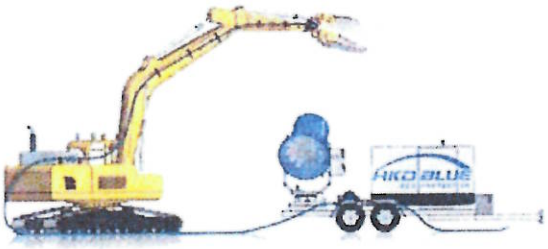
Operation	Remote or
Variable Flow Rates	10 - 80 gpm 1.2 - 18 m³/
Projection	250 ft 75 m
Automatic Oscillation	350°
Misting Coverage	177,000 ft² 16,445 m²
Fan Motor	25 hp 19 kW
Fan Capacity	33,000 cfm 56,000 m³/
Pump Motor	25 hp 19 kW
Pump Capacity	10-80 gpm (2-18 m³/h (
Voltage/Frequency	480v @ 60 600v @ 60 380v @ 50



GEYSER ATTACHMENT

SPECIFICATIONS

Operation	Remote
Variable Flow Rates	10 - 30 gpm 2.2 - 6.8 m³/h
Projection	30 ft 9 m
Spray Pattern	0° - 45°
Voltage	120v



HIGH REACH DUST CONTROL

The GEYSER attachment is mounted to the boom of an excavator for complete ultra-high reach dust control. Tap into the high pressurize water supply by any V-500 pump for atomizing dust control directly at the source. The V-500 fan will capture the remaining dust from falling debris. Water flow is controlled by 120v power with a remote in the cabin of the excavator.